INTERCOMPANY SERVICES COORDINATION PLAN

ENGINEERING REPORTS

CONTENTS PAGE

1. GENERAL 1

2. ENGINEERING INFORMATION REPORT . 1

3. ADVANCE CIRCUIT ORDER AND LAYOUT INFORMATION 2

4. ENGINEERING SERVICE ORDER . . . 3

1. GENERAL

1.01 This section describes the engineering reports that may be required under the Intercompany Services Coordination (ISC) Plan. These reports may also be applicable to the procedures for non-ISC intercompany services. The reports covered by this section are as follows:

(a) Engineering Information Report (EIR),

(b) Advance Circuit Order and Layout Information (ACOLI), and

(c) Engineering Service Order (ESO).

1.02 This section has been revised and replaces Issue 3. Since this is a general revision, arrows ordinarily used to indicate changes have been omitted.

2. ENGINEERING INFORMATION REPORT

2.01 Engineering Information Reports are used by ISC Team Design members, their designated representatives, and by circuit designers to convey circuit design data between engineering areas responsible for circuit design. Included in these areas are work groups such as the Engineering Control Office (ECO), Local Engineering Control Office (LECO) and Station Engineering Control Office (SECO). The purpose of the EIR is coordination of design effort to successfully fulfill the service order Assignment Date (AD) requirements. These coordination efforts should be completed by the Confirming Engineering Information Report (CEIR) date indicated on the service order. The EIR may also be used for these occasions when ECO provides design information to LECO so that local design efforts will produce required local work documents to meet DVA in a timely manner.

2.02 The EIR prepared by the LECO should include the following minimum data as applicable to the circuit design:

(a) Local channel assignments and the corresponding make-up and length,

(b) Interoffice facility assignments and the corresponding make-up and mileage,

(c) Central office equipment assignments and configurations,

(d) Station termination equipment and configuration, and

(e) Requisition numbers as required.

2.03 The EIR prepared by ECO will be in the same format as the one prepared by LECO; but will be a request for the addition, deletion or change to the circuit design received from LECO. Further, the EIR may contain as much circuit layout description (including station layout) as necessary to convey the designer's intent. When the LECO circuit design meets ECOs requirements, then a confirming EIR (CEIR) is sent to LECO. The EIR format is specified in 2.04 and may be communicated verbally.

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2.04 ***EIR format***—the following entries in the sequence shown will be used for Engineering Information Reports:

(a) TO—Enter the ADNet number of office addressed as shown in the ISC Directory, followed by the city or the office code and the initials and telephone number, or the particular individual to whom the report is being directed (if known).

(b) ORG—Enter the ADNet number of the office preparing the report as shown in the ISC Directory, followed by the office code and the preparer's initials and telephone number.

(c) ISC—Enter the Universal Service Order (USO) number for which the report is being made. Include any suffixes followed by the letters EIR.

(d) ORD—Enter any local service order numbers related to the USO.

(e) CKT—Enter the circuit identification as stated on the USO.

(f) CCN—Enter the customer's name as stated on the USO.

(g) CTL—Enter the EIRD as stated on the USO if prepared by LECO or SECO, or enter the AD if prepared by ECO.

(h) RMK—Enter the letters EIR (and supplemental numeric suffixes) followed by the facilities and equipment to be provided in transmission sequence beginning with the station end and continuing up to the point of connection. In the case of an EIR which requests information, indicate the information required. The Private Line Service Termination-Station Engineering Section 812-002-xxx may be referenced to clarify the arrangement being used. Include any local drawing numbers which should be entered on the Circuit Layout Record (CLR), or Work Order Record and Detail (WORD).

Entries should be in Bell System Standard Common Language, eg, Common Language Location Identification (CLLI) Codes in the BSP 795-XXX-XXX series for identification of locations, otherwise spell out completely.

2.05 The confirming EIR (CEIR) may also specify additions, deletions, or changes to the circuit layout received from or agreed to with LECO or SECO. In either case, the confirming EIR is a positive report to LECO which will allow LECO to fulfill its AD requirements as specified in Section 010-520-136 ***Engineering Responsibilities.*** The ECO should also provide timely design information which will allow LECO to meet such record issue responsibilities as they may have, particularly with respect to mechanized systems such as TIRKS, etc. This informtion may be in either EIR or CLR format, but would always be provided on or after AD. Further, the intent of the EIR format is to allow for flexibility; but within a framework of consistency of a standard approach to the problem of circuit design coordination.

2.06 Figures 1 and 2 depict typical EIRs.

3. ADVANCE CIRCUIT ORDER AND LAYOUT INFORMATION

3.01 The Advance Circuit Order and Layout Information (ACOLI) is required when CLRs cannot be distributed to the Plant locations in sufficient time so as to allow Plant to meet its Designed, Verified and Assigned (DVA) obligations. The ACOLI is an expedient and should not normally be used in lieu of the CLR for circuit installation. Further, the ACOLI should contain information which will allow Plant to perform its DVA functions; but when deemed necessary (short interval orders) the ACOLI may include all or part of the circuit design data necessary to test and turn up the circuit. The ACOLI may be transmitted in written or verbal format; but always in an expeditious manner.

3.02 The ACOLI is prepared upon completion of the circuit design and must include the following minimum information:

(a) Local channel assignments,

(b) Interoffice facility assignments,

(c) Central Office equipment assignments (including plug-in equipment components as applicable),

(d) Station termination equipment (including plug-in equipment components as applicable), and

(e) Necessary drawing numbers or other information, eg, data set options, sufficient to allow Plant to correctly install and test the circuit.

(f) Administrative information pertinent for service order coordination, eg, related order numbers, control offices, etc.

The above data is formatted in a similar manner to the EIR, and the circuit layout information is entered in transmission sequence beginning with the station termination. Figure 3 depicts a typical ACOLI.

3.03 ACOLI entries should be in Bell System Standard Common Language, eg, CLLIs and Equipment Identification Codes, otherwise spell out completely.

4. ENGINEERING SERVICE ORDER

4.01 Engineering Service Orders (ESOs) are issued by ECO or LECO to change or modify circuits under their control. Plant activities such as; station equipment changes, local channel or cable transfers, central office equipment rearrangements, interchange facility transfers, service improvement, overall customer termination to termination circuit order testing required by above changes involving an ISC service. The ESO is the work authorization for the Design and Plant activities. An ESO will only be issued to implement changes not affecting customer billing. The responsible sales group shall be advised if the ESO causes a change in customer operation.

4.02 An ESO can also be issued to establish, change or disconnect Long Lines or Operating Company official circuits which provide for testing and maintenance of facilities, eg, order wire and alarm systems. The ESO is the work authority for Design and Plant activities.

> ***Note:*** Every effort should be made to include provision for these circuit types in the initial overall facility project to which the circuits are associated in order to minimize ESO use.

4.03 ESOs shall be numbered by the originating Engineering Control office using the letters "ESO" followed by two blocks of 4-digit numbers. The first block identifies the ISC Area issuing the ESO. Since Long Lines engineering offices serve several Areas, the last two digits of the initial 4-digit block shall be "00". The second 4-digit block should be assigned sequentially by each engineering office, beginning with 0001. When 9999 is reached, recycling should begin. Examples of the number scheme are:

(a) ES01110-0091: Indicates the 91st ESO issued by the Northeastern Area Engineering office of the Ohio Bell Telephone Company.

(b) ESO3500-1776: Indicates the 1776th ESO issued by the Midwestern Area Engineering office of Long Lines. Note that the code will be 3500 whether the service to be changed was implemented by Dallas (3501), Houston (3502), etc.

4.04 The format to be used when issuing ESOs is as follows:

(a) TO—Enter the ADNet or DATA-PHONE® address of all locations (including PCO) at which activity will be required.

(b) ORG—Enter the ADNet or DATA-PHONE code, office code, and the preparer's initials and telephone number.

(c) ORD—Enter the letters "ESO" followed by the complete ESO number as described in 4.03.

(d) CKT—Enter the complete circuit identification of the service being changed.

(e) CCN—Enter the customer name.

(f) CKL—Enter circuit location addresses affected by the ESO.

(g) CTL—Enter critical dates, PCO, and other administrative information as applicable.

(h) RMK—Enter ESO followed by the complete description of the required change, the date required, the reason for the change, and any other information relative to implementing the changes. Both the on and the off facilities or equipment must be stated in the remarks section.

4.04 Figures 4 and 5 depict typical ESOs.

TO ATT20
ORG SWB460/NF/816-474-8278
ISC N3519-0029-00 EIR
ORD GAS 9148
CKT FDDT 123456 LL
CCN ISSITT HANDI-CRAFTS
CTL EIRD 3-11-79
RMK EIR-1 AT KSCYMO9094T

1. STN. EQPT. — 8D28AAA —
   E/W 1 — VRELB
   2 — VRA01
   1 — 6D01B
   1 — 568AA HANDSET
2. L/C
   4W TPKAKSJA02T TO — CSRSS 32 X 430
   X 431

   7.5 Kft. 26NL
   0.4 Kft. 24NL
   BT .9Kft. 24NL
3. IXC
   123-T2-15 KSCYMO0904T TO TPKAKSJA02T
   MI 98.1
4. COE
   AT TPKAKS PROVIDE XN4WB-A, D1CB, SF60

Fig. 1—Typical EIR from LECO

TO SWB261
ORG LSS60/GWJ/404-232-2799
ISC C3309-1492-00 EIR
ORD C3309-1491-00
CKT FDDT 987654 LL
CCN BUHL CONSTRUCTION CO.
CTL AD 5-29-76
RMK EIR- AT DLLSTX CSR.LEN.PROVIDE:

1 — 8D28AAA — E/W
2 — VRA01
1 — VRELB
1 — 568AA HANDSET

1 — 2D08AAB —
OPTIONS REQD:

S1C	DOWN
S3A	UP
S3B	UP
S3C	UP
S4A	DOWN
S4B	DOWN
S4C	DOWN

2 — All other information received from LECO will be used in the final circuit layout and no further confirmations will be sent unless the above items cannot be provided as specified.

Fig. 2—Typical EIR from ECO

```
S1591 06/18 1417 EDT
LEN235 GIF290 GIF261 SB1748

ORG  LSS62  ,  3300E  ,  ENGR JRL  ,  /TN 404-529-6601
1SC  330032S10
CKT  PLNT321640 LL  /A  TFTNGAMA  /Z  VARSPTS
CCN  NOAKES AUTO PARTS
PTD  06263  DD 06233  ID
PCO  TAMPFLXATO 1  SEG NO. 43  ACTION-ADD
RMK  ACOLICO.G2495101  ISSUE 01  ITEM 01
     ASSUMESCO.G2495101  G2495101
HF OFFICE FAC & EQUPT  UZ — AA — ZO  Z — A MISC A — Z MISC
```

03A	REF		7.0	—8.0
04A				
05A	V4C	G18.5G 11.5 C 4W	7.0	3.5
06A	V4C	G15.0 C TB	—11.5	0.0
07A	4NB	3.5 5.8 C 4W	— 8.0	— 6.2
08Z	PL4LC		— 4.1	— 9.7
09CUSTMR	PLSTN		— 0.6	—18.0
10CUSTMR	PLREF		8.0	—18.0

```
NOTES

11A03    TERM IN BDG ASSGD SEG 50
12A07    STRAP 600:600
13A      TNISSD TO ADD STN AT TFTNGAMA PER USO
14A      TNINDEX AND OVERALL TO BE ISSD UNDER
15A      TNGSONIM. DVA 6-26-73. CFRMSACOLI
16A      TNENGRJRL/BAN 404-529-6601
17A      TN/DA1/DOO/DT1  1 ITEM  /N-H/
02A1                          4LC to TFTNGAMA
03A1     M1  GA  DB                 1          HALL'S AUTO PARTS
04A10    —026NEH2.6           —0.6      —9.7   HIWAY 41
05A10.4                         1               TFTNGAMA
06A11.3  24NEH 0.9             SD69254-01 STRAP FOR 5 STN LOSS
07A1     TOTAL 3.5              FIG 2, G, Z, 12
08A1                            219 A KTU
09A1                              1
10A1                            SD69254-01.....
11A1                            FIG 1/Z/.7
12A1                            218A KTU
13A1                            8.0          —180
14A1                            TERM IN 6 BUTTON
15A1                            KEY SET E/WP/T TO      106 B
16A1                            MUTE L/S               LOUD SPKR

E R HODGETTS SM
06-18-75  1:42 AHE LSS62
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Fig. 3—Typical ACOLI

TO 910-221-1244/CFM/

ORG 910-771-3055 3400 /JES/ 312-885-9999

ISC ESO 3500-0017

CKT FDDT 10427 LL

CCN VETERANS' ADMINISTRATION

CKL CKL1-123 FRONT STREET

CTL AD-6-20-74, PCO MYWDILMO

RMK ESO: PLS CHANGE AT CUSTOMER, MYWDILMO
TO 4T90 E/W BNEDH AND
DLSE TO IMPROVE RET LOSS
CUSTR COMPLAINS OF ERROR RATE
WITH 2D02C.
REQUIRED DATE: 9/1/74

Fig. 4—Typical ESO

TO 910-221-1244 /CFM/

ORG 910-771-3005 3500 /JES/ 312-885-9999

ISC ESO 3400-0017

CKT FDDT 432196 LL

CCN VETERANS' ADMINISTRATION

CKL CKL1-7254 ARLINGTON ROAD

CKL AD-7-3-74, PCO-ARLNVAMO

RMK ESO: "Due to cable re-arrangements as covered under Estimate F-6047. DD 7-15-74, the following changes will be required to the above circuit:

Change Local Exchange Pairs serving CKL 5, 7254 Arlington Road: From: From:Cable 25, PR 501(T), 502(R)
6250' -26NL 4.6db
4320' -24NL 753 OHMS.
3000' -BT

To:Cable 26, PR 325 (T), 326 (R)
6000' -26H88
8100' -24H88
4500' -22H88
500' -BT, 3 COILS
5.1db .1101 OHMS.

In the Arlington C.O. add the following:
1- VRM4B E/W
2- VRA01
3- VRELA

See CLR FDDT 125470 for transmission details

Fig. 5—Typical ESO